

DEPARTMENT of ENVIRONMENTAL SERVICES
Water Supply & Pollution Control Division - Biology Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: DODGE POND, BIG	Lake Area (ha):	5.02
Town: HAMPTON FALLS	Maximum depth (m):	1.7
County: Rockingham	Mean depth (m):	0.8
River Basin: Coastal	Volume (m ³):	40000
Latitude: 42°54'34" N	Relative depth:	0.7
Longitude: 70°52'02" W	Shore configuration:	1.16
Elevation (ft): 18	Areal water load (m/yr):	166.2
Shore length (m): 920	Flushing rate (yr ⁻¹):	207.5
Watershed area (ha): 1730.0	P retention coeff.:	0.12
% watershed ponded: 0.2	Lake type:	artificial

BIOLOGICAL:

22 February 1996

22 August 1995

DOM. PHYTOPLANKTON (% TOTAL)	#1	NO PHYTOPLANKTON	NO PHYTOPLANKTON
	#2	SAMPLES COLLECTED	SAMPLES COLLECTED
	#3		
PHYTOPLANKTON ABUNDANCE (units/mL)			
CHLOROPHYLL-A (µg/L)			6.73
DOM. ZOOPLANKTON (% TOTAL)	#1	NO ZOOPLANKTON	NO ZOOPLANKTON
	#2	SAMPLES COLLECTED	SAMPLES COLLECTED
	#3		
ROTIFERS/LITER			
MICROCRUSTACEA/LITER			
ZOOPLANKTON ABUNDANCE (#/L)			
VASCULAR PLANT ABUNDANCE			Very abundant
SECCHI DISK TRANSPARENCY (m)			1.7 Visible on bottom
BOTTOM DISSOLVED OXYGEN (mg/L)		17.0	6.3
BACTERIA (E. coli, #/100 ml)	#1		18
	#2		1
	#3		

SUMMER THERMAL STRATIFICATION:

not stratified

Depth of thermocline (m): None
Hypolimnion volume (m³) : None
Anoxic volume (m³) : None

CHEMICAL:

Lake: DODGE POND, BIG
Town: HAMPTON FALLS

	22 February 1996		22 August 1995		
DEPTH (m)	1.5		0.2		
pH (units)	6.5		7.6		
A.N.C. (Alkalinity)	7.9		42.1		
NITRATE NITROGEN	0.33		< 0.10		
TOTAL KJELDAHL NITROGEN	0.50		0.52		
TOTAL PHOSPHORUS	0.039		0.028		
CONDUCTIVITY (μ mhos/cm)	226.1		306.0		
APPARENT COLOR (cpu)	60		100		
MAGNESIUM			5.38		
CALCIUM			19.2		
SODIUM			37.9		
POTASSIUM			1.65		
CHLORIDE	57		63		
SULFATE			15		
TN : TP	21		19		
CALCITE SATURATION INDEX			0.8		

All results in mg/L unless indicated otherwise

TROPHIC CLASSIFICATION: 1995

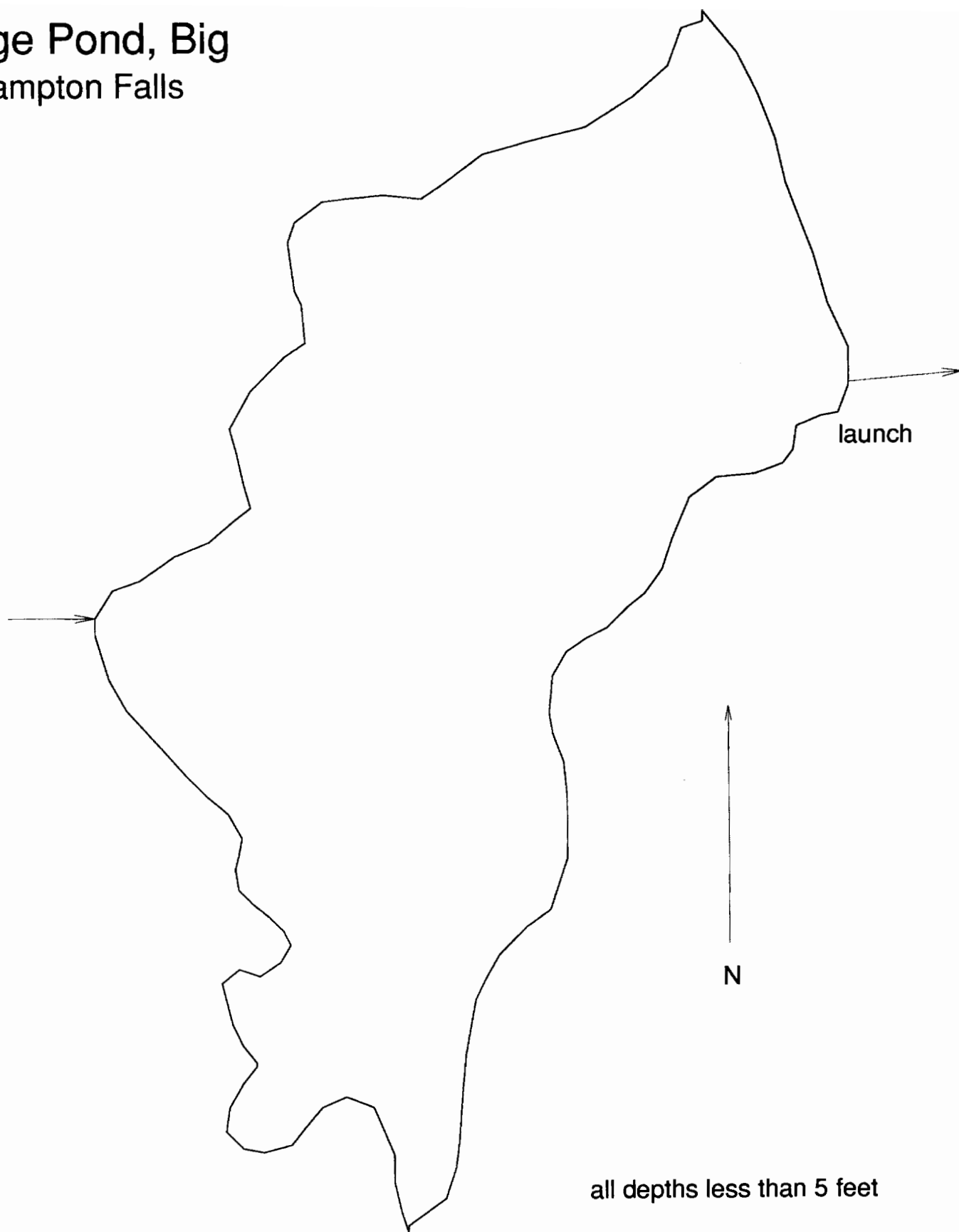
D.O. S.D. PLANT CHL TOTAL CLASS

**	3	6	1	10	Eutro.
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COMMENTS:

1. This is a manmade impoundment on the Hampton Falls River at Route 1; it flows into the Hampton Falls tidal basin.
2. The pond is locally called Janvrin Pond; it is also known as Whittier Pond.
3. Elevated ANC, conductivity, chloride, sulfate and cation values are probably due to ocean influence (sea spray, flooding).
4. A steep dirt boat access was present on the south side of the pond opposite Dick's Tire Center.

Dodge Pond, Big Hampton Falls



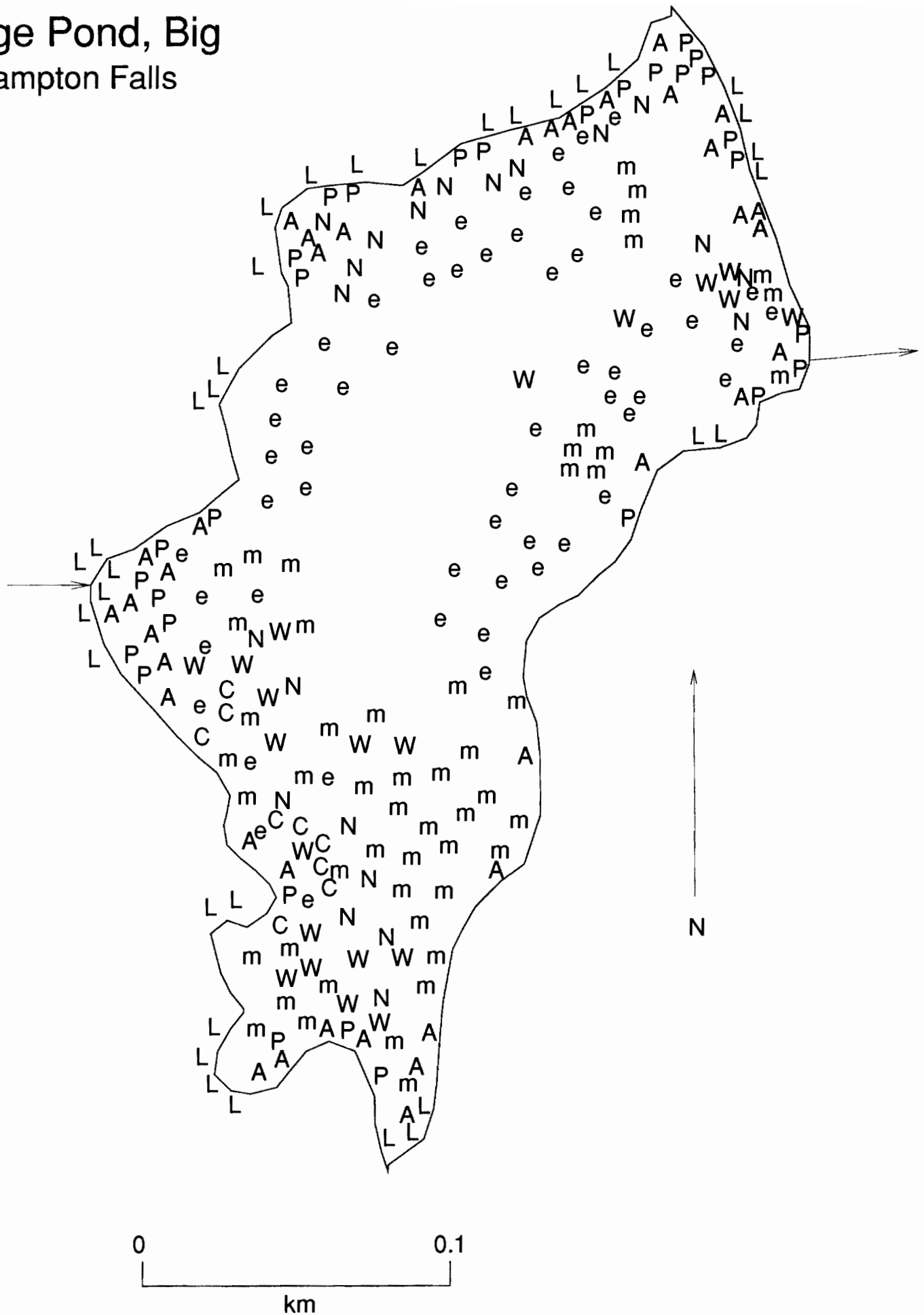
0 0.1
km

all depths less than 5 feet

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Dodge Pond, Big

Hampton Falls



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